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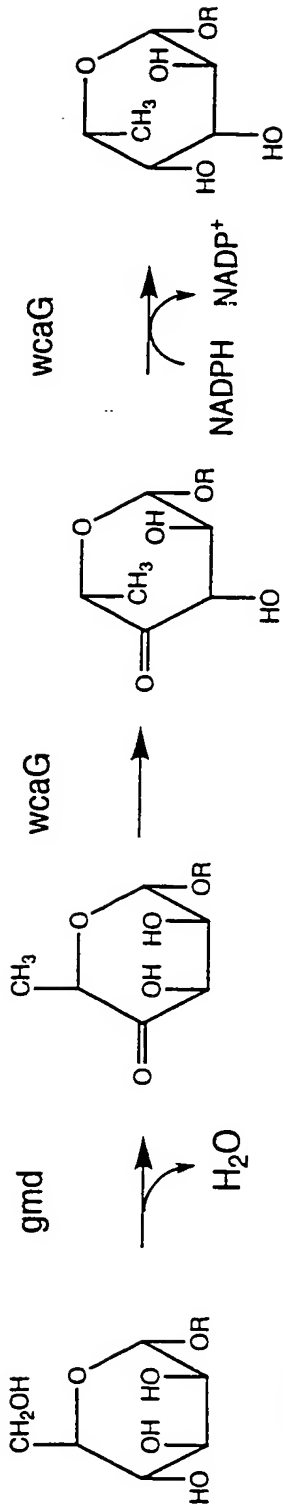
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WATERBURY

GDP-4-keto, 6-deoxy-(D)-mannose  
GDP-4-keto, 6-deoxy-(L)-glucose

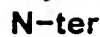
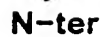
GDP- (D)-mannose

GDP-(L)-fucose



R - GDP

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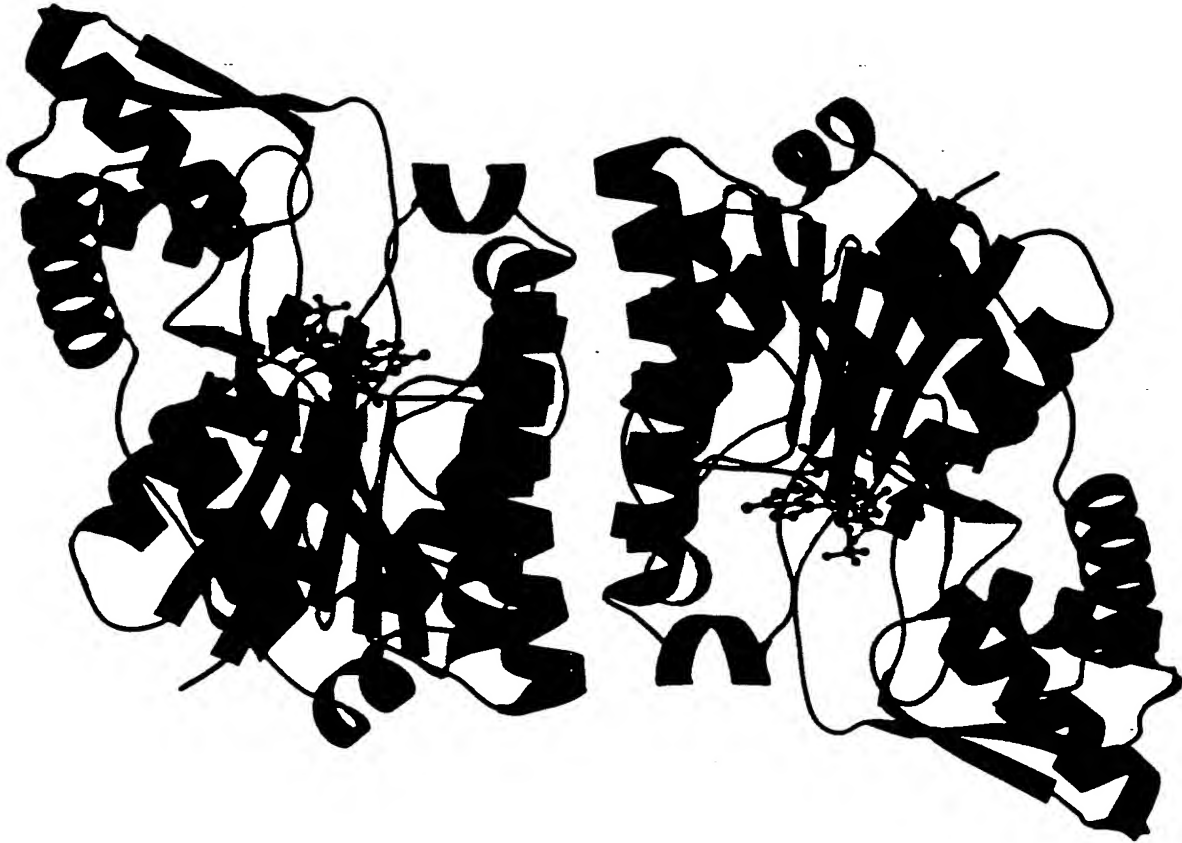




Figure 4

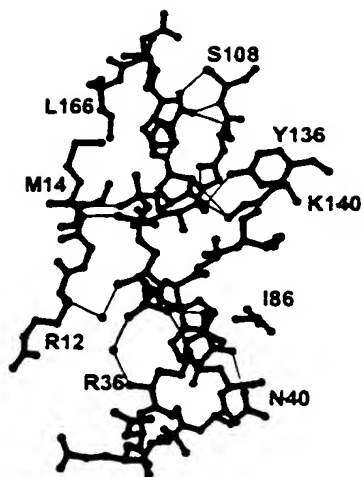
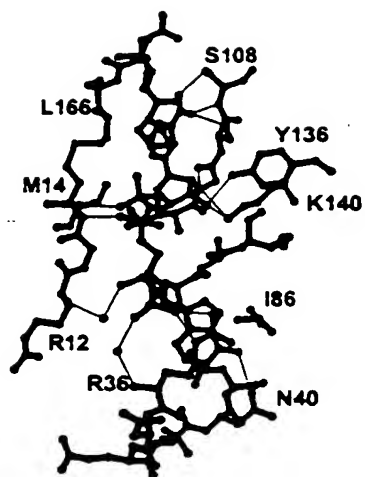
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coli_GFS	3	KQRFPIAGERGEMVGSATRRQLEQRGDVHVRTR	-----DELN
human_GFS	8	-MRILVTGGSGLVGKALQKVADGAGLFGEDWVF	-----VSSKQAD
consensus	1	.....	....
gale	59	TRNEALMTETLHDHAIETVIRFAGLKA-VGESVQKPLEYVDNNVNGTLRLISAMRAANVK	
coli_GFS	41	ELDSRAVHDEFSASERIDQVYLAAAKVGGIVANNTPADELYQNMIESNITHAAHQNDVN	
human_GFS	48	LTDTAQTRALFEKVQPTHVIHLAAEVGGLFRNIRYNLDEWRKNVHMNDVVLHSAFEVGAR	
consensus	61	.....	....
gale	118	NFIFSSSATVYCDNPKIBYVES-FPTGTEQ---SPYGKSRMLVEQILTDLQKAQPDWSIA	
coli_GFS	101	KLLFLGSSCIYPKLAKQPMASELLQGTLEPTTFEYAIARIAGIKLCSYNROY-GRDVR	
human_GFS	108	KVVSCLSTCIPDKTTPIDETMIENGPFENSNFGYSYAKRMIDVQNRATFQQY-GCTET	
consensus	121	.....	....
gale	174	LLRYFNFPVGAHPSGDMGEDPQGIPNNLMETHAQVAVGR----RDSLAIIFCNDYPTEDGTC	
coli_GFS	160	SVMEPTNLYGPH-----DNFHPSSNSHVIPALLRRFHEATAQNAPDVVVWGS-----CTE	
human_GFS	167	AVIPTNVFGEHONF-----NIEDGHVLEGLERKVLAKS-SGSALTVMCTG-----NP	
consensus	181	.....	....
gale	230	VRDYIHVEDLADGHVVAMEKLANK-----EGVHIYNLGAAGVGNVLDVVDNAFSKACGKP	
coli_GFS	208	MREPLHVDDWAASIEHVMELAHEVWLENTQEMLSHINVGTGVDECTIRELAQTIAVVGK	
human_GFS	214	RHQFIYSLLDLAQLFIWVLRREYN-----VEPIILSVGEEDVSIKEAAEAIVEAMDEE	
consensus	241	.....	....
gale	284	VNYEFAPRRREGDLPAYWADAASKADRETNMRVTRTLDEMAQDTWQSRHPQGYPD	
coli_GFS	268	GRVVPDASKPDGTPRKLLDVTRLHQ-LGWYHEISTEAGLASTYQWFLENQDRF	
human_GFS	267	GEVTFDTTKSDGQPKKTHSNKLRITYLPDERFTPFKQAVKETCAWFTDNYEQARK	
consensus	301	.....	....

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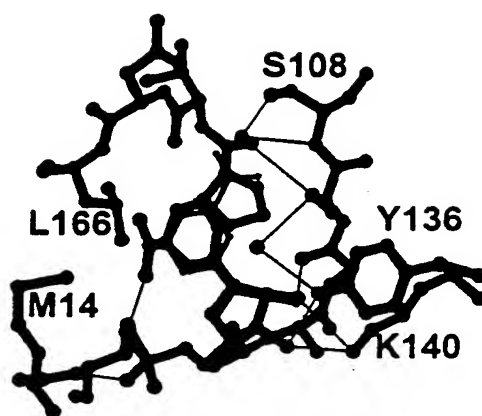
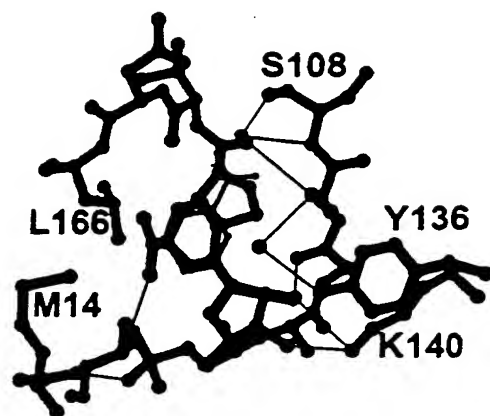
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Fig 5A.



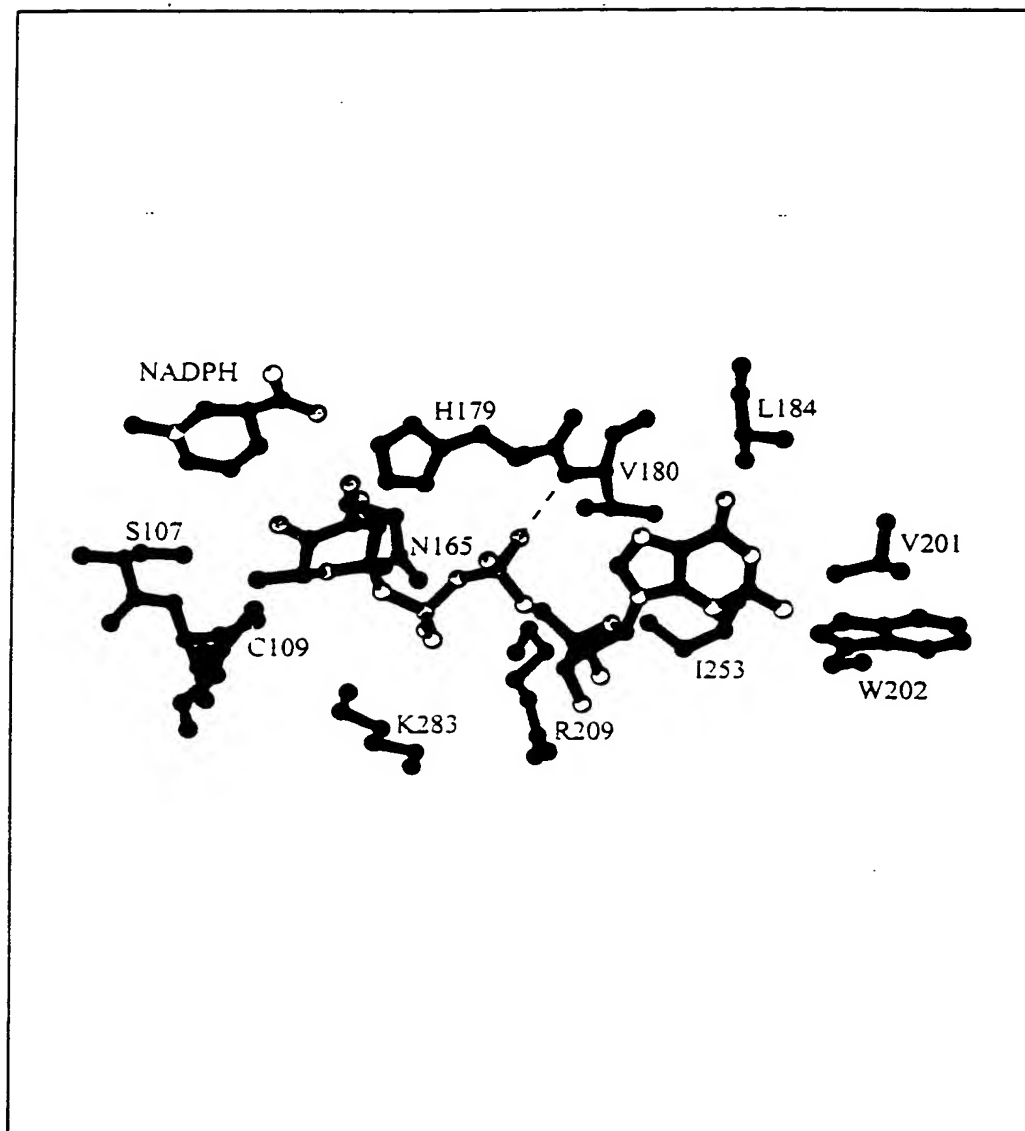
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Fig 5 B



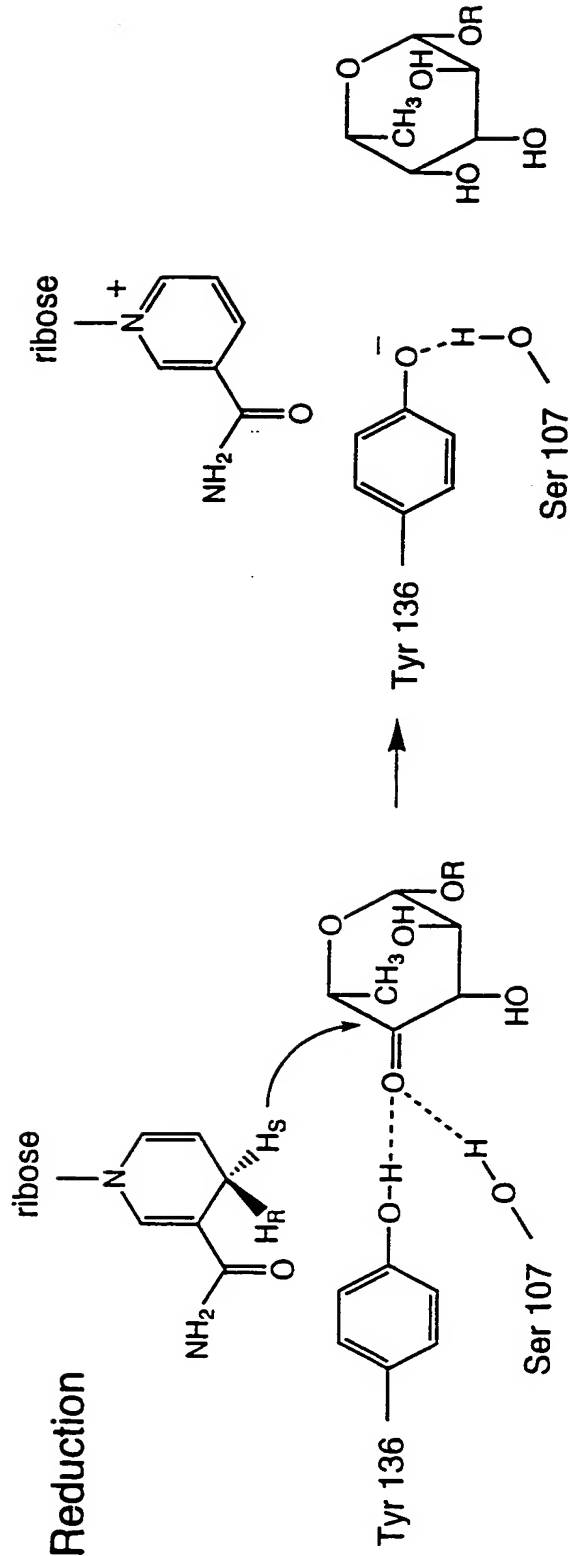
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Fig 6

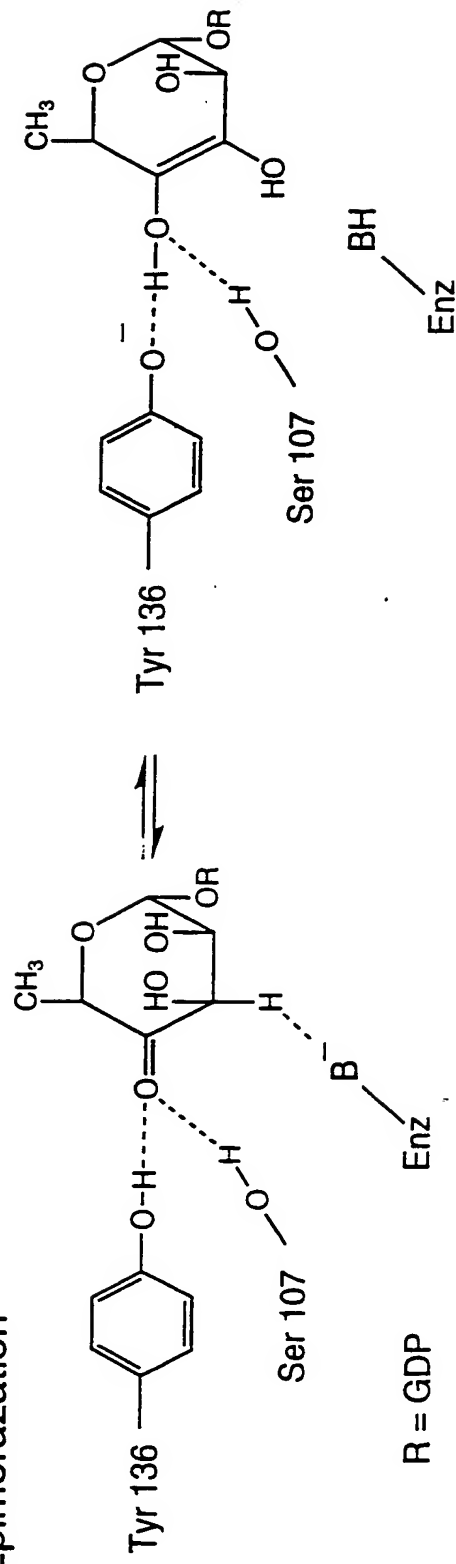


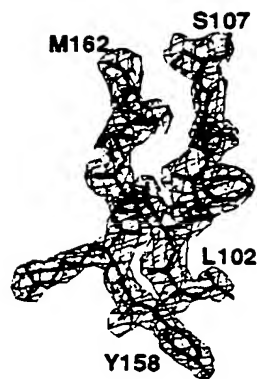


## Reduction



## Epimerization



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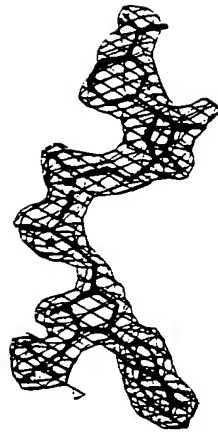
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Scale 1:4

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MAP. RMB

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